PA43: Hematology Summary

Test Compound: Perfluorohexane sulfonate potassium salt

CAS Number: 3871-99-6

Date Report Requested: 12/14/2016
Lab: Battelle
<table>
<thead>
<tr>
<th></th>
<th>Phase Day</th>
<th></th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>0 mg/kg/day</td>
<td>0.625 mg/kg/day</td>
<td>1.25 mg/kg/day</td>
<td>2.5 mg/kg/day</td>
</tr>
<tr>
<td>Hematocrit (%)</td>
<td>SD 28</td>
<td>52.3 ± 0.8 (10) *</td>
<td>50.8 ± 0.6 (10)</td>
<td>51.4 ± 0.6 (10)</td>
<td>49.9 ± 0.5 (10)</td>
</tr>
<tr>
<td>Percent of Control</td>
<td></td>
<td>97</td>
<td>98</td>
<td>99</td>
<td>95</td>
</tr>
<tr>
<td>Manual Hematocrit (%)</td>
<td>SD 28</td>
<td>47 ± 1 (10) *</td>
<td>46 ± 1 (10)</td>
<td>46 ± 1 (10)</td>
<td>45 ± 0 (10)</td>
</tr>
<tr>
<td>Percent of Control</td>
<td></td>
<td>98</td>
<td>99</td>
<td>99</td>
<td>96</td>
</tr>
<tr>
<td>Hemoglobin (g/dL)</td>
<td>SD 28</td>
<td>15.8 ± 0.2 (10)</td>
<td>15.5 ± 0.2 (10)</td>
<td>15.7 ± 0.2 (10)</td>
<td>15.1 ± 0.2 (10)</td>
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<tr>
<td>Percent of Control</td>
<td></td>
<td>98</td>
<td>99</td>
<td>99</td>
<td>96</td>
</tr>
<tr>
<td>Red Blood Cells (M/µL)</td>
<td>SD 28</td>
<td>8.62 ± 0.11 (10) *</td>
<td>8.40 ± 0.08 (10)</td>
<td>8.72 ± 0.12 (10)</td>
<td>8.35 ± 0.09 (10)</td>
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<tr>
<td>Percent of Control</td>
<td></td>
<td>97</td>
<td>101</td>
<td>97</td>
<td></td>
</tr>
<tr>
<td>Reticulocytes (K/µL)</td>
<td>SD 28</td>
<td>182.0 ± 7.4 (10) **</td>
<td>163.6 ± 9.1 (10)</td>
<td>155.4 ± 7.6 (10) *</td>
<td>152.6 ± 5.7 (10) *</td>
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<tr>
<td>Percent of Control</td>
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<td>90</td>
<td>85</td>
<td>84</td>
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<tr>
<td>Mean Cell Volume (fL)</td>
<td>SD 28</td>
<td>60.7 ± 0.5 (10)</td>
<td>60.5 ± 0.5 (10)</td>
<td>59.1 ± 0.4 (10) *</td>
<td>59.8 ± 0.3 (10)</td>
</tr>
<tr>
<td>Percent of Control</td>
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<td>100</td>
<td>97</td>
<td>98</td>
<td></td>
</tr>
<tr>
<td>Mean Cell Hemoglobin (pg)</td>
<td>SD 28</td>
<td>18.4 ± 0.2 (10)</td>
<td>18.4 ± 0.2 (10)</td>
<td>18.0 ± 0.1 (10)</td>
<td>18.1 ± 0.1 (10)</td>
</tr>
<tr>
<td>Percent of Control</td>
<td></td>
<td>100</td>
<td>98</td>
<td>99</td>
<td></td>
</tr>
<tr>
<td>Mean Cell Hemoglobin Concentration (g/dL)</td>
<td>SD 28</td>
<td>30.3 ± 0.1 (10)</td>
<td>30.4 ± 0.1 (10)</td>
<td>30.5 ± 0.1 (10)</td>
<td>30.4 ± 0.1 (10)</td>
</tr>
<tr>
<td>Percent of Control</td>
<td></td>
<td>101</td>
<td>101</td>
<td>100</td>
<td></td>
</tr>
<tr>
<td>Platelets (K/µL)</td>
<td>SD 28</td>
<td>898 ± 24 (10)</td>
<td>909 ± 27 (10)</td>
<td>917 ± 21 (10)</td>
<td>860 ± 28 (10)</td>
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<td>Percent of Control</td>
<td></td>
<td>101</td>
<td>102</td>
<td>102</td>
<td>96</td>
</tr>
<tr>
<td>White Blood Cells (K/µL)</td>
<td>SD 28</td>
<td>10.57 ± 0.77 (10)</td>
<td>13.06 ± 1.16 (10)</td>
<td>11.21 ± 0.85 (10)</td>
<td>11.80 ± 0.53 (10)</td>
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<tr>
<td>Percent of Control</td>
<td></td>
<td>124</td>
<td>106</td>
<td>112</td>
<td></td>
</tr>
<tr>
<td>Neutrophils (K/µL)</td>
<td>SD 28</td>
<td>0.98 ± 0.11 (10)</td>
<td>1.13 ± 0.05 (10)</td>
<td>1.03 ± 0.07 (10)</td>
<td>1.05 ± 0.10 (10)</td>
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<tr>
<td>Percent of Control</td>
<td></td>
<td>116</td>
<td>106</td>
<td>107</td>
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</table>
### Male

#### Treatment Groups

<table>
<thead>
<tr>
<th></th>
<th>Phase Day</th>
<th>0 mg/kg/day</th>
<th>0.625 mg/kg/day</th>
<th>1.25 mg/kg/day</th>
<th>2.5 mg/kg/day</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lymphocytes (K/uL)</td>
<td>SD 28</td>
<td>9.25 ± 0.66 (10)</td>
<td>11.52 ± 1.09 (10)</td>
<td>9.79 ± 0.78 (10)</td>
<td>10.38 ± 0.49 (10)</td>
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<td>Percent of Control</td>
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<td></td>
<td>125</td>
<td>106</td>
<td>112</td>
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<tr>
<td>Total Lymphocytes (K/uL)</td>
<td>SD 28</td>
<td>9.31 ± 0.67 (10)</td>
<td>11.59 ± 1.09 (10)</td>
<td>9.85 ± 0.79 (10)</td>
<td>10.44 ± 0.50 (10)</td>
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<td>Percent of Control</td>
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<td></td>
<td>125</td>
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<td>112</td>
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<tr>
<td>Monocytes (K/uL)</td>
<td>SD 28</td>
<td>0.17 ± 0.02 (10)</td>
<td>0.21 ± 0.02 (10)</td>
<td>0.21 ± 0.03 (10)</td>
<td>0.21 ± 0.03 (10)</td>
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<tr>
<td>Percent of Control</td>
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<td></td>
<td>126</td>
<td>125</td>
<td>124</td>
</tr>
<tr>
<td>Basophils (K/uL)</td>
<td>SD 28</td>
<td>0.02 ± 0.00 (10)</td>
<td>0.02 ± 0.00 (10)</td>
<td>0.02 ± 0.00 (10)</td>
<td>0.02 ± 0.00 (10)</td>
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<tr>
<td>Percent of Control</td>
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<td></td>
<td>120</td>
<td>113</td>
<td>107</td>
</tr>
<tr>
<td>Eosinophils (K/uL)</td>
<td>SD 28</td>
<td>0.10 ± 0.01 (10) **</td>
<td>0.11 ± 0.01 (10)</td>
<td>0.09 ± 0.01 (10)</td>
<td>0.08 ± 0.01 (10)</td>
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<tr>
<td>Percent of Control</td>
<td></td>
<td></td>
<td>108</td>
<td>93</td>
<td>83</td>
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### Treatment Groups

<table>
<thead>
<tr>
<th>Test Item</th>
<th>Phase Day</th>
<th>5 mg/kg/day</th>
<th>10 mg/kg/day</th>
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</thead>
<tbody>
<tr>
<td>Hematocrit (%)</td>
<td>SD 28</td>
<td>50.4 ± 0.2</td>
<td>50.6 ± 0.6</td>
</tr>
<tr>
<td>Percent of Control</td>
<td></td>
<td>96</td>
<td>97</td>
</tr>
<tr>
<td>Manual Hematocrit (%)</td>
<td>SD 28</td>
<td>45 ± 0</td>
<td>44 ± 1</td>
</tr>
<tr>
<td>Percent of Control</td>
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<td>95</td>
</tr>
<tr>
<td>Hemoglobin (g/dL)</td>
<td>SD 28</td>
<td>15.4 ± 0.1</td>
<td>15.4 ± 0.2</td>
</tr>
<tr>
<td>Percent of Control</td>
<td></td>
<td>97</td>
<td>97</td>
</tr>
<tr>
<td>Red Blood Cells (M/uL)</td>
<td>SD 28</td>
<td>8.33 ± 0.06</td>
<td>8.36 ± 0.11</td>
</tr>
<tr>
<td>Percent of Control</td>
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<td>97</td>
<td>97</td>
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<tr>
<td>Reticulocytes (K/uL)</td>
<td>SD 28</td>
<td>133.7 ± 7.4</td>
<td>141.0 ± 6.6</td>
</tr>
<tr>
<td>Percent of Control</td>
<td></td>
<td>74</td>
<td>78</td>
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<tr>
<td>Mean Cell Volume (fL)</td>
<td>SD 28</td>
<td>60.5 ± 0.3</td>
<td>60.6 ± 0.4</td>
</tr>
<tr>
<td>Percent of Control</td>
<td></td>
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<td>100</td>
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<tr>
<td>Mean Cell Hemoglobin (pg)</td>
<td>SD 28</td>
<td>18.5 ± 0.1</td>
<td>18.4 ± 0.2</td>
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<tr>
<td>Percent of Control</td>
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<td>101</td>
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<tr>
<td>Mean Cell Hemoglobin Concentration (g/dL)</td>
<td>SD 28</td>
<td>30.5 ± 0.1</td>
<td>30.4 ± 0.1</td>
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<tr>
<td>Percent of Control</td>
<td></td>
<td>101</td>
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<tr>
<td>Platelets (K/uL)</td>
<td>SD 28</td>
<td>891 ± 21</td>
<td>886 ± 35</td>
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<tr>
<td>Percent of Control</td>
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<tr>
<td>White Blood Cells (K/uL)</td>
<td>SD 28</td>
<td>11.97 ± 0.58</td>
<td>11.36 ± 0.96</td>
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<tr>
<td>Percent of Control</td>
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<td>113</td>
<td>107</td>
</tr>
<tr>
<td>Neutrophils (K/uL)</td>
<td>SD 28</td>
<td>1.02 ± 0.04</td>
<td>1.15 ± 0.17</td>
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<td>Percent of Control</td>
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<td>104</td>
<td>118</td>
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<tr>
<td></td>
<td>Phase Day</td>
<td>5 mg/kg/day</td>
<td>10 mg/kg/day</td>
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<tr>
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<td>10.55 ± 0.54 (10)</td>
<td>9.86 ± 0.81 (10)</td>
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<tr>
<td>Percent of Control</td>
<td></td>
<td>114</td>
<td>107</td>
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<tr>
<td>Lymphocytes (K/uL)</td>
<td>SD 28</td>
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<tr>
<td></td>
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<td>10.62 ± 0.55 (10)</td>
<td>9.92 ± 0.82 (10)</td>
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<tr>
<td>Percent of Control</td>
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<td>114</td>
<td>107</td>
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<tr>
<td>Total Lymphocytes (K/uL)</td>
<td>SD 28</td>
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<tr>
<td>Monocytes (K/uL)</td>
<td>SD 28</td>
<td>0.24 ± 0.03 (10)</td>
<td>0.22 ± 0.04 (10)</td>
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<td>Percent of Control</td>
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<tr>
<td>Basophils (K/uL)</td>
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<td>0.02 ± 0.00 (10)</td>
<td>0.01 ± 0.00 (10)</td>
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<tr>
<td>Percent of Control</td>
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<td>120</td>
<td>87</td>
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<tr>
<td>Eosinophils (K/uL)</td>
<td>SD 28</td>
<td>0.08 ± 0.01 (10)</td>
<td>0.07 ± 0.01 (10) *</td>
</tr>
<tr>
<td>Percent of Control</td>
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<td>77</td>
<td>67</td>
</tr>
</tbody>
</table>
LEGEND

SD – Study Day; GD – Gestation Day; LD – Lactation Day; PND – Postnatal Day, adults post-weaning
Values given as mean ± SEM (N) with Percent of Control calculated by (dosed group mean / control group mean) x 100
Hematology for gestation phase includes pregnant females only
Statistical analysis performed by Jonchkeere (trend) and Shirley or Dunn (pairwise) tests
Statistical significance for the control group indicates a significant trend test
* Statistically significant at P <= 0.05
** Statistically significant at P <= 0.01

** END OF REPORT **